

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled)
2. (Previously Presented) The composite as claimed in claim 21, wherein the tensile bond strength between the polyacetal component and the thermoplastic polyamide elastomer component is at least 1.0 N/mm.
3. (Previously Presented) The composite as claimed in claim 21, wherein the polyacetal comprises a polyoxymethylene copolymer.
4. (Previously Presented) The composite as claimed in claim 21, wherein the polyacetal component and/or the thermoplastic polyamide elastomer component have additives that are selected from the group consisting of stabilizers, nucleating agents, impact modifiers, mold-release agents, lubricants, fillers, reinforcing materials, pigments, carbon black, light stabilizers, flame retardants, antistatic agents, plasticizers, and optical brighteners.
- 5-6. (Canceled)
7. (Previously Presented) The composite as claimed in claim 21, wherein the polyacetal component has been modified with from 1 to 50% by weight of a thermoplastic polyurethane elastomer, with from 1 to 40% by weight of a methyl methacrylate-butadiene-styrene core-shell elastomer, or with a mixture of the two, the entirety of the two modifiers being in the range from 1 to 50% by weight.

8. (Previously Presented) The composite as claimed in claim 21, wherein the hardness of the thermoplastic polyamide elastomer component is in the range from Shore A 50 to Shore D 75.

9. (Cancelled).

10. (Previously Presented) The composite as claimed in claim 21, wherein the thermoplastic polyamide elastomer comprises a thermoplastic polyetheramide elastomer.

11. (Original) The composite as claimed in claim 10, wherein the thermoplastic polyetheramide elastomer has aliphatic polyamide groups as stiff segment and polytetramethylene oxide and/or polypropylene oxide and/or polyethylene oxide as flexible segment.

12. (Previously Presented) The composite as claimed in claim 11, wherein the aliphatic polyamide groups are selected from the group consisting of nylon-6, nylon-11, nylon-12, nylon-6,6, nylon-6,10, nylon-6,11, and nylon-6,12.

13. (Previously Presented) The composite as claimed in claim 21, wherein the polyacetal molding has been completely coated with the thermoplastic polyamide elastomer component.

14. (Canceled)

15. (Withdrawn) A process for producing the composite as claimed in claim 21, which comprises using multicomponent injection molding processes to mold at least one polyacetal molding and at least one other molding composed of thermoplastic polyamide elastomer onto one another, the polyamide elastomer being injected onto the polyacetal molding.

16. (Withdrawn) The process as claimed in claim 15, wherein, prior to the molding-on of the thermoplastic polyamide elastomer, the polyacetal molding is preheated to a temperature in the range from 80°C to just below its melting point, and the melt temperature of the thermoplastic polyamide elastomer during the process of molding onto the polyacetal molding is from 200 to 320°C, and the mold has been temperature-controlled to a temperature in the range from 20 to 140°C.

17. (Withdrawn) The process as claimed in claim 16, wherein, prior to the molding-on of the thermoplastic polyamide elastomer, the polyacetal molding is preheated to a temperature in the range from 100 to 160°C, and the melt temperature of the thermoplastic polyamide elastomer during the process of molding onto the polyacetal molding is from 220 to 280°C, and the mold has been temperature-controlled to a temperature in the range from 30 to 80°C.

18. (Cancelled)

19. (Previously Presented) A connector or a component with integrated sealing properties and/or with integrated damping properties, or else as non-slip and easy-grip element which comprises the composite as claimed in claim 21.

20. (Cancelled)

21. (Currently Amended) A composite comprising a polyacetal component and a thermoplastic polyamide elastomer component directly molded onto the polyacetal component, the polyacetal component comprising polyacetal and at least one modifier selected from the group consisting of thermoplastic polyurethane elastomer, methyl methacrylate-butadiene-styrene core-shell elastomer, methyl methacrylate-acrylate core-shell elastomer, polycarbonate, styrene-acrylonitrile copolymer, and acrylate-

styrene-acrylonitrile copolymer compounded material, the thermoplastic polyamide elastomer component consisting essentially of at least one thermoplastic polyamide elastomer, wherein the thermoplastic polyamide elastomer is a multiblock copolymer copolyamide consisting of polyamide segments and either polyether segments or polyester segments, the multiblock copolymer consisting of the repeat structural units of the formulae I and II or of the formulae I and III or of the formulae I, II, and III, which have been linked to one another via ester bonds and/or amide bonds



where R^1 , R^2 , and R^3 , independently of one another, are alkylene or cycloalkylene radicals,

where R^4 and R^5 , independently of one another, are alkylene, cycloalkylene, or arylene radicals,

m and q , independently of one another, are 0 or 1, and

n , o , and p , independently of one another, are whole numbers at least equal to 1, the composite being formed by forming a molding of the polyacetal component and overmolding one or more moldings composed of the thermoplastic polyamide elastomer component immediately adjacent to the polyacetal component, wherein the polyacetal component and the thermoplastic polyamide elastomer component have been bonded adhesively or cohesively to one another via injection of the thermoplastic polyamide elastomer component onto the polyacetal molding, which prior to the molding-on of the thermoplastic polyamide elastomer component, is preheated to a temperature in the

range from 80°C to just below its melting point, and the melt temperature of the thermoplastic polyamide elastomer component during the process of molding onto the polyacetal molding is from 200 to 280 320°C and wherein the tensile bond strength between the polyacetal component and the thermoplastic polyamide elastomer component is at least 0.5 N/mm² determined in the tensile test to ISO 527.

22. (Previously Presented) The composite as claimed in claim 21, wherein prior to the molding-on of the thermoplastic polyamide elastomer component, the polyacetal component is preheated to a temperature in the range from 100 to 160°C, and the melt temperature of the thermoplastic polyamide elastomer during the process of molding onto the polyacetal component is from 220 to 280°C, and the mold has been temperature-controlled to a temperature in the range from 30 to 80°C.

23. (New) A composite comprising a polyacetal component and a thermoplastic polyamide elastomer component directly molded onto the polyacetal component, the polyacetal component consisting essentially of polyacetal, the thermoplastic polyamide elastomer component consisting essentially of at least one thermoplastic polyamide elastomer, wherein the thermoplastic polyamide elastomer is a multiblock copolymer consisting of polyamide segments and either polyether segments or polyester segments, the multiblock copolymer consisting of the repeat structural units of the formulae I and II or of the formulae I and III or of the formulae I, II, and III, which have been linked to one another via ester bonds and/or amide bonds



where R^1 , R^2 , and R^3 , independently of one another, are alkylene or cycloalkylene radicals,

where R^4 and R^5 , independently of one another, are alkylene, cycloalkylene, or arylene radicals,

m and q, independently of one another, are 0 or 1, and

n, o, and p, independently of one another, are whole numbers at least equal to 1,

the composite being formed by forming a molding of the polyacetal component and overmolding one or more moldings composed of the thermoplastic polyamide elastomer component immediately adjacent to the polyacetal component, wherein the polyacetal component and the thermoplastic polyamide elastomer component have been bonded adhesively or cohesively to one another via injection of the thermoplastic polyamide elastomer component onto the polyacetal molding and wherein the tensile bond strength between the polyacetal component and the thermoplastic polyamide elastomer component is at least 0.5 N/mm^2 determined in the tensile test to ISO 527.

24. (New) The composite as claimed in claim 23, wherein the tensile bond strength between the polyacetal component and the thermoplastic polyamide elastomer component is at least 1.0 N/mm .

25. (New) The composite as claimed in claim 23, wherein the polyacetal comprises a polyoxymethylene copolymer.

26. (New) The composite as claimed in claim 23, wherein the hardness of the thermoplastic polyamide elastomer component is in the range from Shore A 50 to Shore D 75.

27. (New) The composite as claimed in claim 23, wherein the thermoplastic polyamide elastomer is a thermoplastic polyetheramide elastomer.

28. (New) The composite as claimed in claim 27, wherein the thermoplastic polyetheramide elastomer has aliphatic polyamide groups as stiff segment and polytetramethylene oxide and/or polypropylene oxide and/or polyethylene oxide as flexible segment.

29. (New) The composite as claimed in claim 23, wherein the polyamide segments are selected from the group consisting of nylon-6, nylon-11, nylon-12, nylon-6,6, nylon-6,10, nylon-6,11, and nylon-6,12.

30. (New) The composite as claimed in claim 23, wherein the polyacetal molding has been completely coated with the thermoplastic polyamide elastomer component.

31. (New) A connector or a component with integrated sealing properties and/or with integrated damping properties, or else as non-slip and easy-grip element which comprises the composite as claimed in claim 23.